

### ABSTRACT OF THE DISCLOSURE

A positive active material for a non-aqueous electrolyte secondary battery includes a lithium-nickel composite oxide represented by the compositional formula  $\text{Li}_a\text{Ni}_{1-b-c}\text{Co}_b\text{Mn}_c\text{O}_2$  ( $a \leq 1.09$ ,  $0.05 \leq b \leq 0.35$ ,  $0.15 \leq c \leq 0.35$ , and  $0.25 \leq b+c \leq 0.55$ ). By X-ray diffractometry with a  $\text{CuK}\alpha$  ray, the lithium-nickel composite oxide exhibits an intensity ratio  $R$  ( $(I_{012} + I_{006})/I_{101}$ ) of not greater than 0.50, wherein  $R$  is the ratio of the sum of the diffraction peak intensity  $I_{012}$  on the 012 plane and the diffraction peak intensity  $I_{006}$  on the 006 plane to the diffraction peak intensity  $I_{101}$  on the 101 plane. The crystallinity of the positive active material of the compositional formula  $\text{Li}_a\text{Ni}_{1-b-c}\text{Co}_b\text{Mn}_c\text{O}_2$  can be kept high and it is possible to secure good capacity density and cycle life performance.